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NOTICE OF ALLOWANCE AND FEE(S) DUE

30827

7590

08/10/2009

MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006 EXAMINER

BRIGGS, NATHANAEL R

ART UNIT PAPER NUMBER

2871

DATE MAILED: 08/10/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/742,911	12/23/2003	Hee Jung Hong	8734.282.00 US	7164

TITLE OF INVENTION: TOUCH PANEL FOR DISPLAY DEVICE AND METHOD OF FABRICATING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/10/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

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A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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Alexandria, Virginia 22313-1450 (571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 30827 7590 08/10/2009 Certificate of Mailing or Transmission MCKENNA LONG & ALDRIDGE LLP I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 1900 K STREET, NW WASHINGTON, DC 20006 (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/742.911 12/23/2003 8734.282.00 US 7164 Hee Jung Hong TITLE OF INVENTION: TOUCH PANEL FOR DISPLAY DEVICE AND METHOD OF FABRICATING THE SAME APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 11/10/2009 **EXAMINER** ART UNIT CLASS-SUBCLASS BRIGGS, NATHANAEL R 2871 349-012000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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			2871		
WASHINGTON, DC 20006		JU6		2871 DATE MAILED: 08/10/200	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 532 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 532 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/742,911	HONG ET AL.	
Notice of Allowability	Examiner	Art Unit	
	NATHANAEL R. BRIGGS	2871	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicati GHTS. This application is subject	application. If not included ion will be mailed in due course. THIS	
1. X This communication is responsive to <u>amendments filed 14</u>	<u>April 2009</u> .		
2. The allowed claim(s) is/are <u>1,4,5,7-9,12,13,15 and 16</u> .			
 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 			
2. ☐ Certified copies of the priority documents have			
3. ☐ Copies of the certified copies of the priority doc	• •		
International Bureau (PCT Rule 17.2(a)).	saments have been received in th	is national stage application from the	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminification.	ENT of this application. itted. Note the attached EXAMINE	ER'S AMENDMENT or NOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t he submitted		
(a) ☐ including changes required by the Notice of Draftspers		O-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		o o roy attached	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		e Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT I 			
Attachment(s)	5 D Notice of Informe	I Detaut Application	
1. Notice of References Cited (PTO-892)	5. Notice of Informa		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.	Date .	
3. Information Disclosure Statements (PTO/SB/08),	7. ☐ Examiner's Amer	ndment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	ment of Reasons for Allowance	
	9. Other		
/N. R. B./ Examiner, Art Unit 2871			

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1, 4-5, 7, 8, 9, 12, 13, and 15-16 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: Claims 1 and 9 recite a touch panel and method of fabricating a touch panel for a display device, respectively, having a driver IC comprising upper and lower substrates, first and second transparent electrodes, first and second metal electrodes being electrically connected to the first transparent electrode, third and fourth metal electrodes being electrically connected to the second transparent electrode, a flexible printed cable having a plurality of signal applying lines extended to a rear side of the display device for applying signal voltages to the metal electrodes, wherein the flexible printed cable has a first bend over an edge of the upper and lower substrates from a top to a bottom of the display device, and has a plurality of through-holes between the first part and the second part, wherein the driver IC is arranged on the rear side of the display device for driving the display, wherein the flexible printed cable extends in a first direction from the first bend to overlap the driver IC and the flexible printed cable has a second bend to extend past the driver IC in a second direction over a printed circuit board and connects to a touch panel controller. None of the prior art of record alone or in combination discloses the device and method of claims 1 and 9.
- 3. Kono et al. (US 2001/0043291) discloses a touch panel and method of fabricating a touch panel for a display device, respectively, having a driver IC comprising upper and lower substrates, first and second transparent electrodes, first

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and second metal electrodes being electrically connected to the first transparent electrode, third and fourth metal electrodes being electrically connected to the second transparent electrode, and a flexible printed cable having a plurality of signal applying lines for applying signal voltages to the metal electrodes. However, *Kono* does not disclose the FPC extended to a rear side of the display device, wherein the flexible printed cable has a first bend over an edge of the upper and lower substrates from a top to a bottom of the display device, and has a plurality of through-holes between the first part and the second part, wherein the driver IC is arranged on the rear side of the display device for driving the display, wherein the flexible printed cable extends in a first direction from the first bend to overlap the driver IC and the flexible printed cable has a second bend to extend past the driver IC in a second direction over a printed circuit board and connects to a touch panel controller, nor would it have been obvious to do in combination.

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4. *Nakanishi et al.* (6,781,642) a touch panel and method of fabricating a touch panel for a display device, respectively, having a driver IC comprising upper and lower substrates, first and second transparent electrodes, a flexible printed cable having a plurality of signal applying lines extended to a rear side of the display device for applying signal voltages to the metal electrodes, wherein the flexible printed cable has a first bend over an edge of the upper and lower substrates from a top to a bottom of the display device, wherein the driver IC is arranged on the rear side of the display device for driving the display, wherein the flexible printed cable extends in a first direction from the first bend to overlap the driver IC. However, *Nakanishi* does not disclose first and

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second metal electrodes being electrically connected to the first transparent electrode, third and fourth metal electrodes being electrically connected to the second transparent electrode, wherein the FPC has a plurality of through-holes between the first part and the second part, or wherein the flexible printed cable has a second bend to extend past the driver IC in a second direction over a printed circuit board and connects to a touch panel controller, nor would it have been obvious to do so in combination.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATHANAEL R. BRIGGS whose telephone number is (571)272-8992. The examiner can normally be reached on 9 AM - 5:30 PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nathanael Briggs 8/4/2009

/David Nelms/ Supervisory Patent Examiner, Art Unit 2871